

Title (en)
LASER CONTROL CIRCUIT.

Title (de)
LASERSTEUERSCHALTUNG.

Title (fr)
CIRCUIT DE COMMANDE DE LASER.

Publication
EP 0513002 B1 19940126 (EN)

Application
EP 90917395 A 19901130

Priority
US 47351390 A 19900201

Abstract (en)
[origin: US4995045A] A laser diode control circuit maintains a desired average output power of the laser diode by detecting the optical output, amplifying the detected output, and controlling a bias current of the laser diode accordingly. A pilot tone is combined with the detected output and amplified therewith, and the amplified level of the tone is detected and used to control a modulation current for the laser diode. In one described arrangement the laser diode is controlled to have a high extinction ratio with the bias current at the knee of the diode's characteristic curve, and in another arrangement a lower extinction ratio is provided with the bias current above the knee.

IPC 1-7
H01S 3/133

IPC 8 full level
H01S 5/00 (2006.01); **H01S 5/042** (2006.01); **H01S 5/06** (2006.01); **H01S 5/0683** (2006.01)

CPC (source: EP US)
H01S 5/06832 (2013.01 - EP US)

Cited by
US6765970B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
US 4995045 A 19910219; AU 6753690 A 19910821; CA 2073430 A1 19910802; CA 2073430 C 19980331; DE 69006370 D1 19940310; DE 69006370 T2 19940511; EP 0513002 A1 19921119; EP 0513002 B1 19940126; JP 2932100 B2 19990809; JP H05504025 A 19930624; WO 9111838 A1 19910808

DOCDB simple family (application)
US 47351390 A 19900201; AU 6753690 A 19901130; CA 2073430 A 19901130; CA 9000427 W 19901130; DE 69006370 T 19901130; EP 90917395 A 19901130; JP 50003091 A 19901130